

Application No.: 09/994,598

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the claims:

Claim 1 (Previously Presented): An electromagnetic energy treatment apparatus comprising:

a generator configured to produce electromagnetic energy; and

at least one applicator coupled to said generator,

wherein said applicator is configured to apply said electromagnetic energy; and

a detector disposed on said applicator,

wherein said detector is configured to measure field strength of the applied electromagnetic energy, and

wherein said generator is configured to adjust the amplitude of said applied electromagnetic energy in response to said measured field strength, and said applicator is configured to apply electromagnetic energy with said adjusted amplitude from said generator.

Claim 2 (Original): The apparatus of claim 1, wherein said detector is a germanium diode signal detector.

Claim 3 (Original): The apparatus of claim 1, further comprising a light-emitting diode (LED) that flashes when the field strength measured by said detector is greater than a maximum field strength level.

Claim 4 (Original): The apparatus of claim 1, further comprising a light-emitting diode (LED) that flashes when the field strength measured by said detector is less than a minimum field strength level.

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Claim 5 (Original): The apparatus of claim 1, further comprising at least one amplifier connected to said generator, wherein said amplifier controls the amount of electromagnetic energy transmitted to said applicator.

Claim 6 (Original): The apparatus of claim 5, further comprising a power level controller configured to control said amplifier.

Claim 7 (Original): The apparatus of claim 6,
wherein said detector sends feedback information about the field strength measured by said detector to said power level controller, and
wherein said power level controller controls said amplifier in accordance with said feedback information.

Claim 8 (Original): The apparatus of claim 6, wherein said power level controller turns off said amplifier when the field strength measured by said detector is greater than a maximum field strength level.

Claim 9 (Original): The apparatus of claim 6, wherein said power level controller turns off said amplifier when the field strength measured by said detector is less than a minimum field strength level.

Claim 10 (Original): The apparatus of claim 5, further comprising a sensor configured to measure the proximity of the applicator to a patient,
wherein said sensor activates a switch when said applicator is coupled to the patient; and
wherein said amplifier is turned off when said switch is activated.

Claim 11 (Original): The apparatus of claim 1, wherein said applicator includes a sensor configured to measure the proximity of the applicator to a patient.

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Claim 12 (Original): The apparatus of claim 11, wherein said sensor includes a switch that activates a lamp when said applicator is coupled to the patient.

Claim 13 (Original): The apparatus of claim 12, wherein said lamp flashes when said applicator is not coupled to the patient.

Claim 14 (Original): The apparatus of claim 11, wherein said sensor includes a switch that changes the state of an indicator when said applicator is coupled to the patient.

Claim 15 (Original): The apparatus of claim 11, wherein said sensor includes a switch that changes the state of an indicator when said applicator is not coupled to the patient.

Claim 16 (Original): The apparatus of claim 1, wherein said generator is battery powered.

Claims 17-28 (Canceled).

Claim 29 (Previously Presented): An apparatus for stimulating the proliferation of cells in tissue, the apparatus comprising:

- a first circuit configured to produce electromagnetic energy;
- an applicator configured to apply said electromagnetic energy produced by said first circuit to the tissue;
- a detector configured to:
 - measure the electromagnetic energy applied by said applicator, and
 - produce a response signal in response to said measured electromagnetic energy; and
- a second circuit configured to apply electromagnetic energy by varying the amplitude of said applied electromagnetic energy as a function of said response signal.

Claim 30 (Original): The apparatus of claim 29, wherein said detector is a germanium diode signal detector.

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Claim 31 (Original): The apparatus of claim 29, wherein said detector is configured to sense the electromagnetic energy applied by said applicator by measuring the field strength of the applied electromagnetic energy.

Claim 32 (Original): The apparatus of claim 31, wherein said second circuit is configured to vary the applied electromagnetic energy by ceasing to provide said applied electromagnetic energy if the field strength of said applied electromagnetic energy is greater than a maximum field strength level.

Claim 33 (Original): The apparatus of claim 31, wherein said second circuit is configured to vary the applied electromagnetic energy by ceasing to provide said applied electromagnetic energy if the field strength of said applied electromagnetic energy is less than a minimum field strength level.

Claims 34-49 (Canceled).

Claim 50 (Previously Presented): A method for stimulating the proliferation of cells in tissue, said method comprising:

- providing electromagnetic energy;
- applying said electromagnetic energy to the tissue;
- measuring said applied electromagnetic energy;
- producing a response signal in response to said measured electromagnetic energy; and
- applying electromagnetic energy by varying the amplitude of said applied electromagnetic energy as a function of said response signal.

Claim 51 (Original): The method of claim 50, wherein said sensing includes measuring the field strength of said applied electromagnetic energy.

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Claim 52 (Original): The method of claim 51, wherein varying the applied electromagnetic energy includes ceasing to provide said electromagnetic energy if the field strength of said electromagnetic energy is greater than a maximum field strength level.

Claim 53 (Original): The method of claim 51, wherein varying the applied electromagnetic energy includes ceasing to provide said electromagnetic energy if the field strength of said electromagnetic energy is less than a minimum field strength level.

Claim 54 (Previously Presented): The apparatus of claim 29, wherein the detector is disposed on the applicator.

Claim 55 (Previously Presented): The method of claim 50, wherein the electromagnetic energy is applied through an applicator disposed on the tissue, and wherein the applied electromagnetic energy is sensed using a detector disposed on the applicator.

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